

Austerity In the Age of Innovation

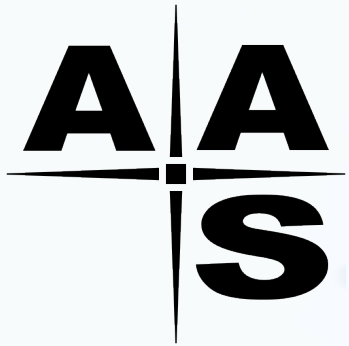
Bethany Johns, Ph.D.

John Bahcall Public Policy Fellow

American Astronomical Society

June 22, 2012

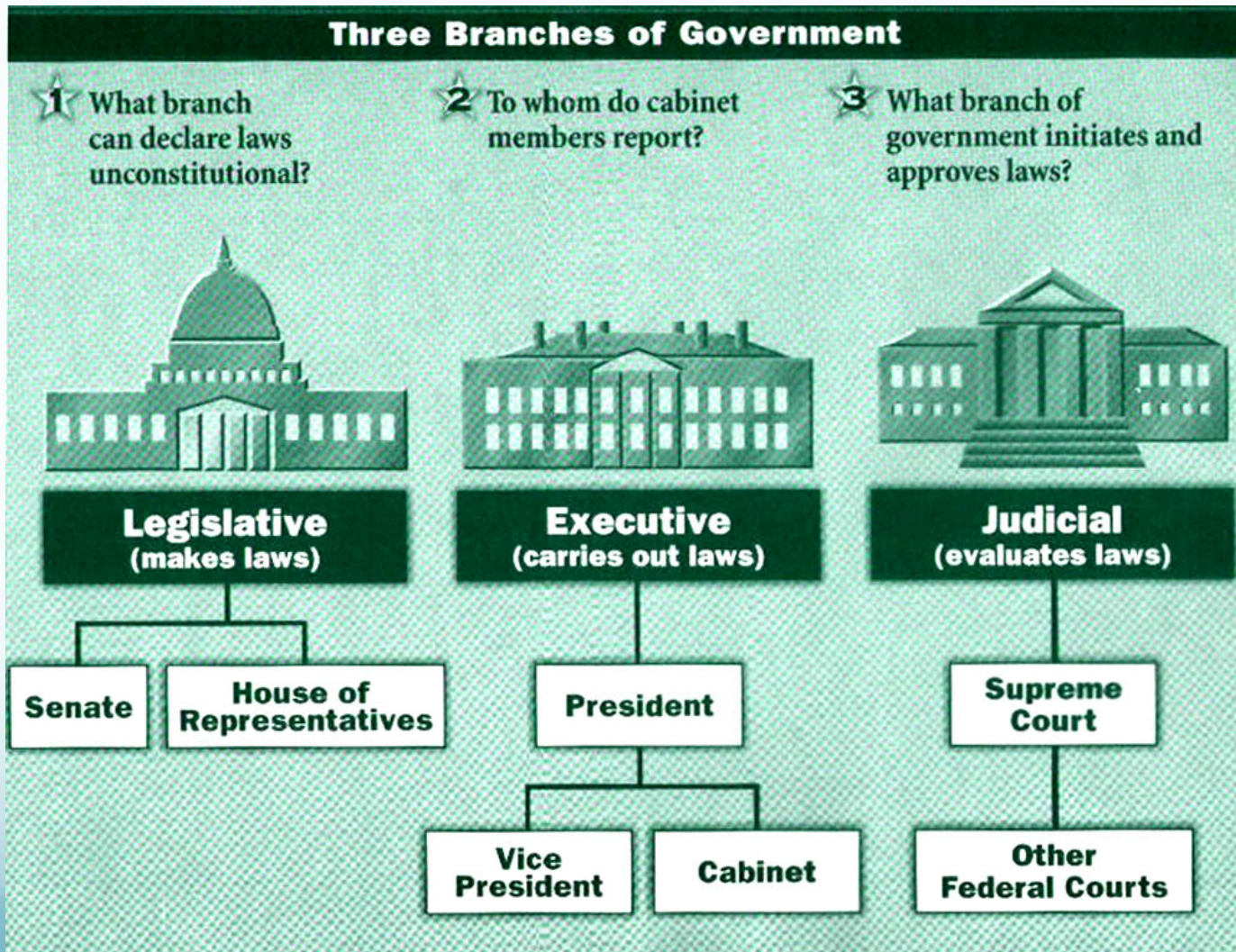
IPPW-9



American Astronomical Society

- Enhance and share humanity's scientific understanding of the Universe
- Largest professional membership organization for astronomy and closely related fields
- More than 7600 members with 1500 international members.
- 5 specialized divisions, including Division for Planetary Science (DPS) and Laboratory Astrophysics Division (LAD)

American Gov 101



Policy on Capitol Hill

Authorization Committees

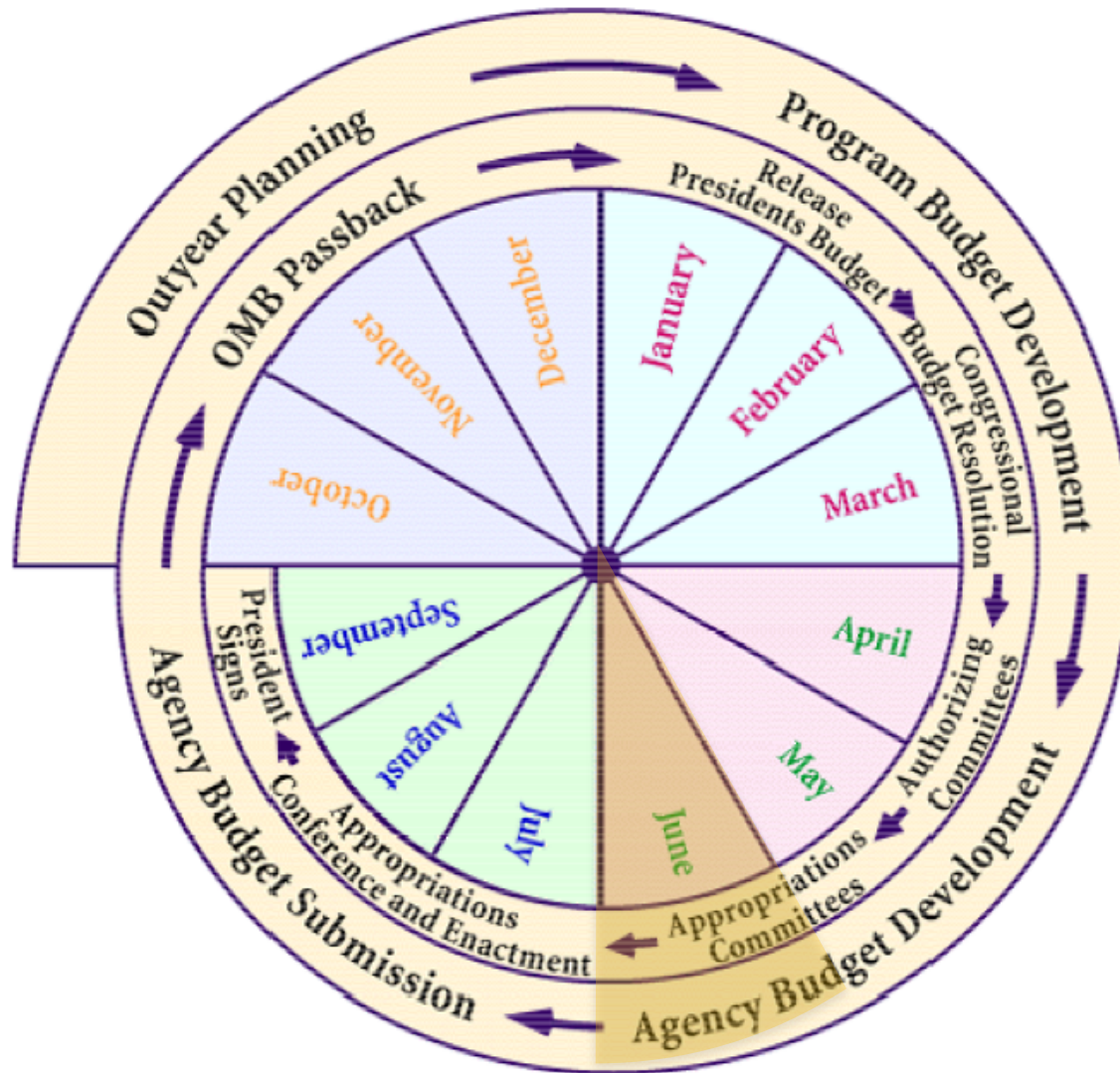
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Appropriation Committees

- Oversight of Depts. & Agencies: provide policy direction, permit new programs, recommend funding
- Provide the actual funding for government programs and agencies on an annual basis

	Authorizing Committee	Appropriations Subcommittee(s)
Dept. of Defense	House and Senate Armed Services	Defense Military Constructions-VA
Intelligence Community	House and Senate Special Committees on Intelligence	Defense
NASA, NOAA, NSF	House Science, Space & Technology Senate Commerce, Science, & Transportation	Commerce, Justice, & Science
Dept. of Transportation Office of Commercial Space Transportation	House Science, Space & Technology Senate Commerce, Science, & Transportation	Transportation, Housing and Urban Development

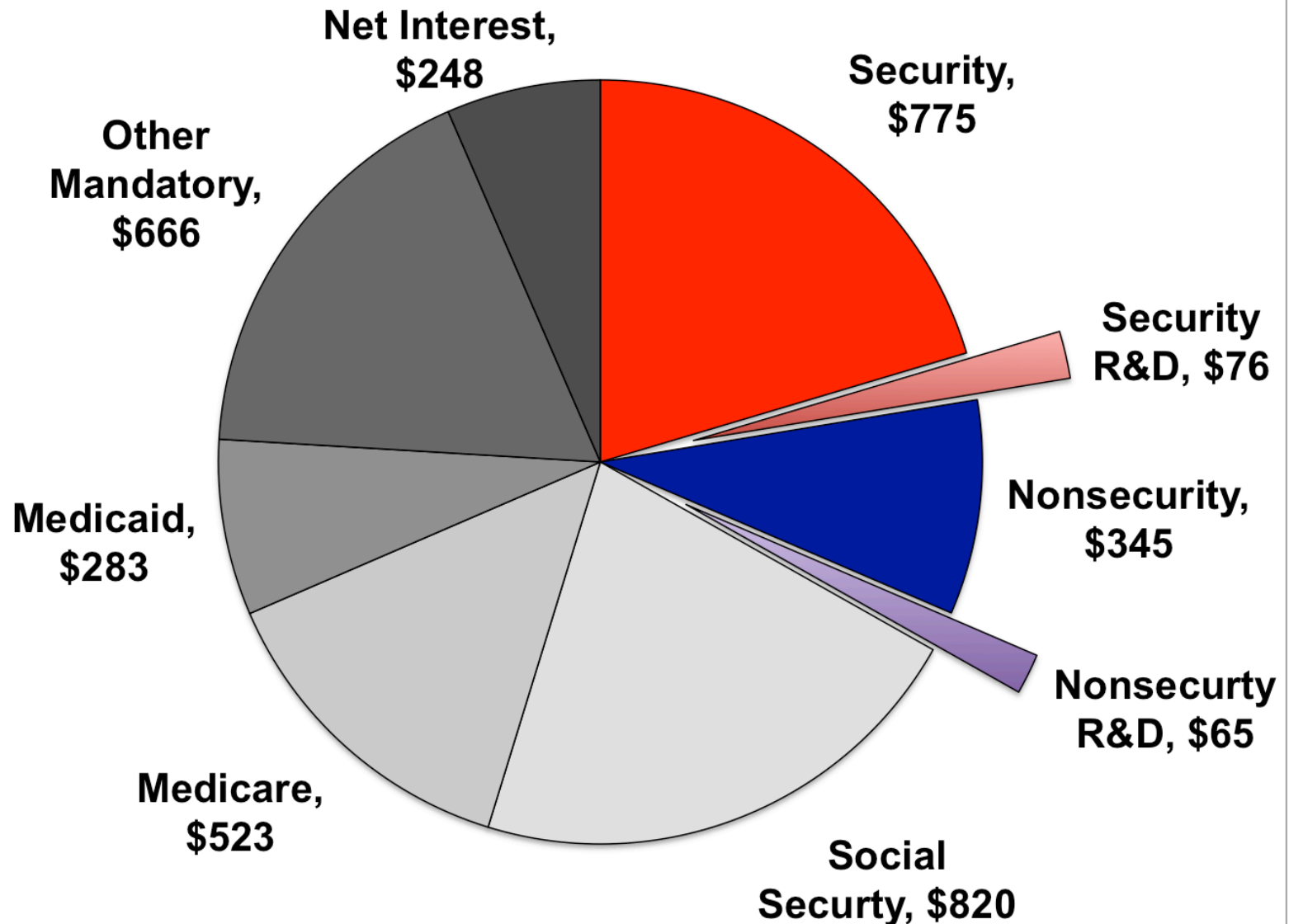
The Budget Cycle



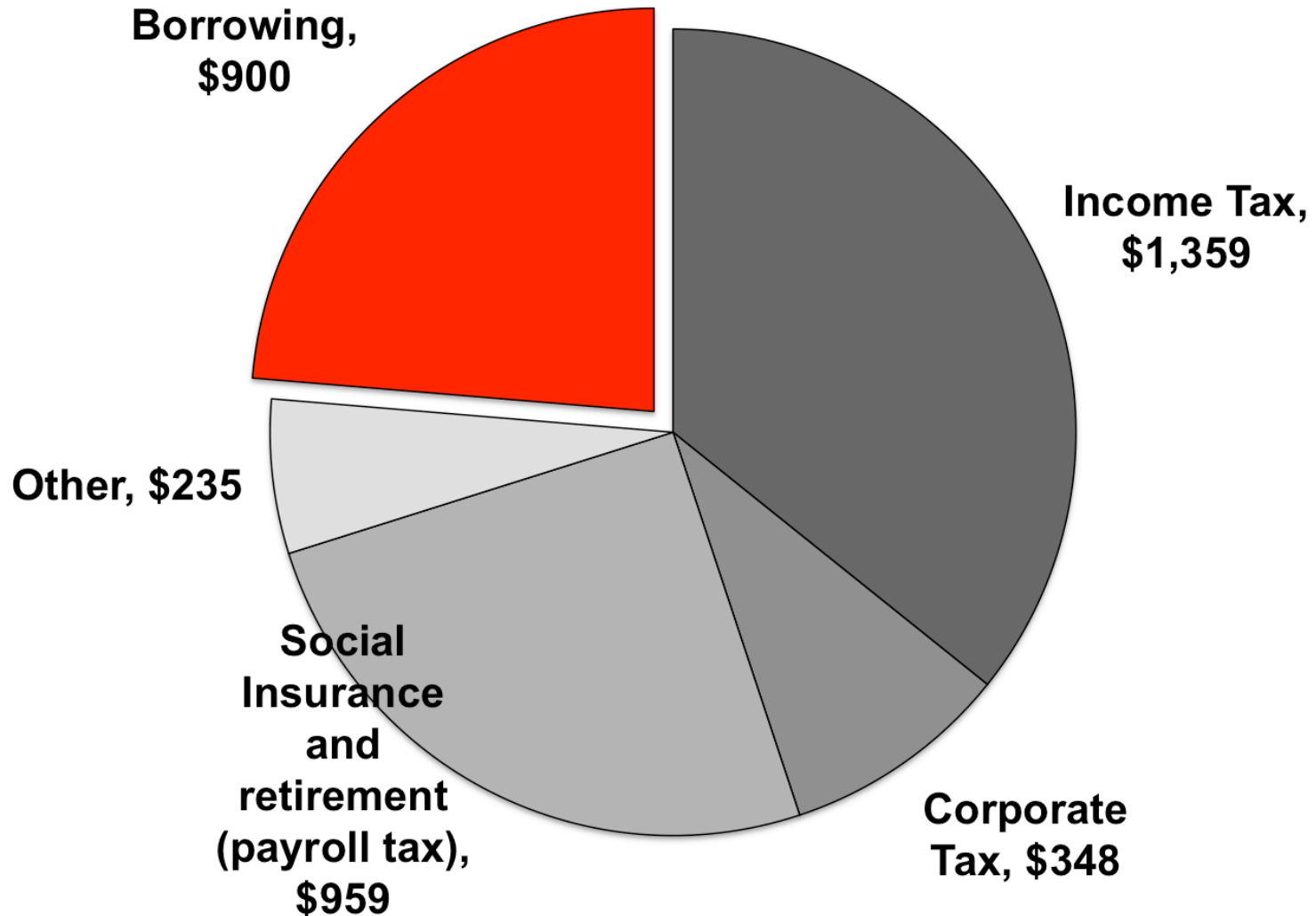
Composition of the Proposed FY 2013 Budget

Total Outlays = \$3.8 trillion

outlays in billions of dollars

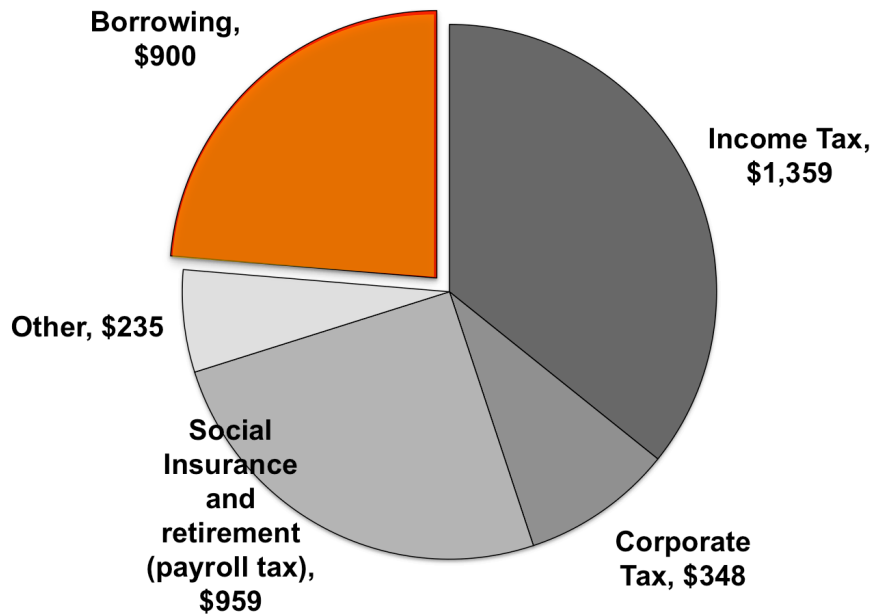


Composition of the Proposed FY 2013 Budget
Total Outlays = \$3.8 trillion
Total Receipts (without borrowing) = \$2.9 trillion

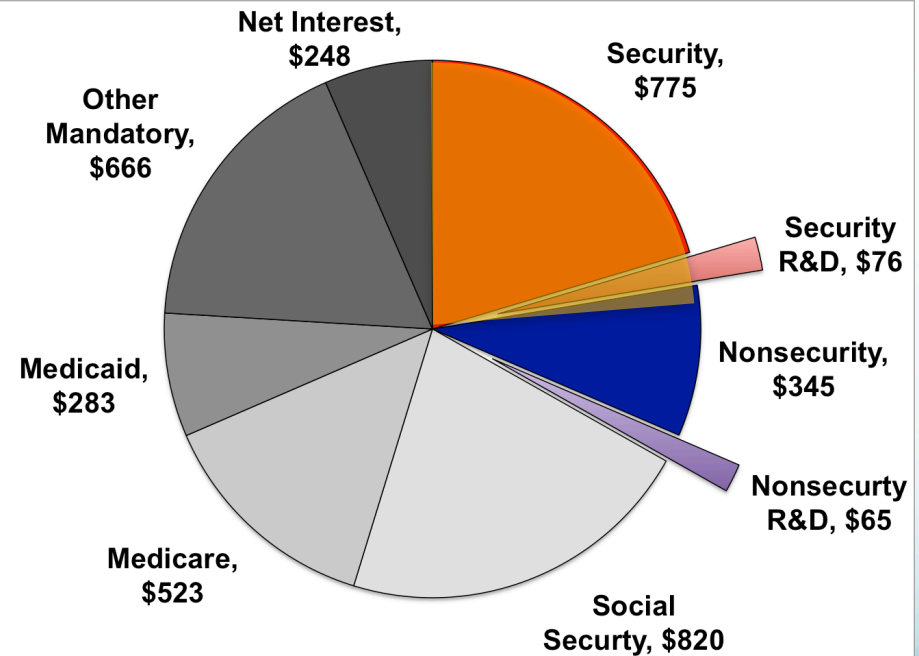


Federal Revenue and Spending

Revenue



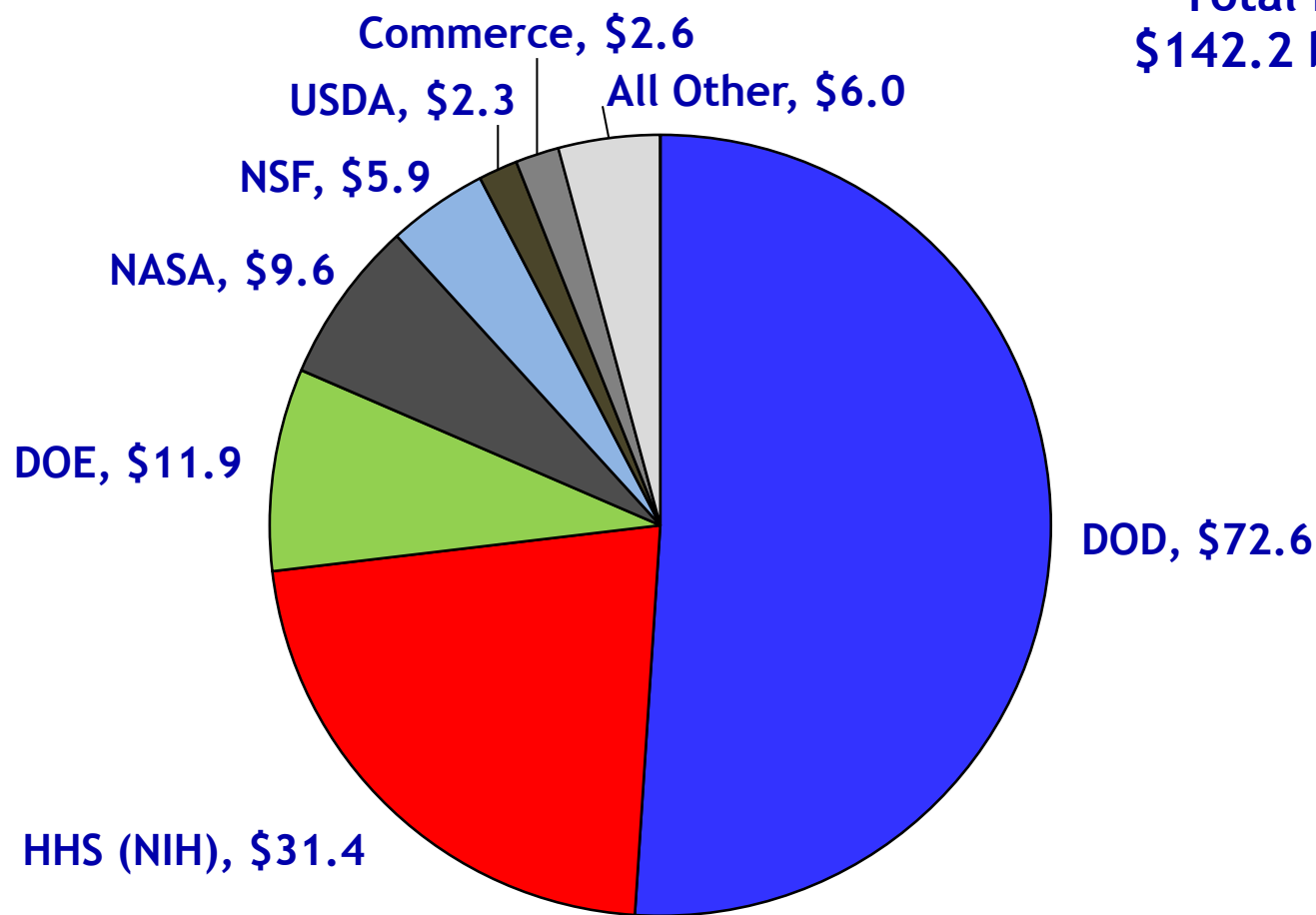
Spending



Total R&D by Agency, FY 2013

budget authority in billions of dollars

Total R&D =
\$142.2 billion



Source: OMB R&D data, agency budget justifications, and other agency documents.

R&D includes conduct of R&D and R&D facilities.

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AAAS REPORT XXXVII

Research & Development FY 2013

Intersociety Working Group



 **AAAS**
ADVANCING SCIENCE. SERVING SOCIETY

- Federal R&D in FY2013
President Budget Request
- Historical Trends in Federal R&D
- Political and Policy Context
- Agency R&D budgets
- Disciplinary analyses
- <http://www.aaas.org/spp/rd/rdreport2013/>

Astronomical Sciences in Federal Budget

Table 1. Astronomy in the Federal R&D Budget
(budget authority in millions of dollars)

	FY 2011 Actual	FY 2012 Estimate	FY 2013 Budget	Change FY 12-13 Amount	Percent
Natl Aero and Space Admin	18,448	17,771	17,711	-60	-0.3%
<i>Science</i>	4,920	5,073	4,911	-162	-3.2%
<i>Heliophysics</i>	639	621	648	27	4.4%
<i>Planetary Science</i>	1,451	1,501	1,192	-309	-20.6%
<i>Astrophysics</i>	631	673	659	-14	-2.1%
<i>James Webb ST</i>	477	519	628	109	21.0%
National Science Foundation	6,860	7,033	7,373	340	4.8%
<i>Astronomical Sciences</i>	237	235	245	10	4.3%
<i>Research</i>	66	73	84	11	14.5%
<i>Education</i>	6	7	6	-1	-12.8%
<i>Infrastructure</i>	165	155	155	0	0.1%
<i>Major Res. Equip & Facils</i>	125	197	196	-1	-0.5%
Department of Energy					
<i>Office of Science</i>	4,897	4,874	4,992	119	2.4%
<i>High Energy Physics</i>	776	791	777	-14	-1.8%
<i>Cosmic Frontiers</i>	75	68	79	11	15.9%

Source: Agency budget justifications. Figures rounded to the nearest million.
Changes calculated from unrounded figures.

Current Status of CJS Appropriations

Senate

- Passed full Approp Committee April 18
- Gives NASA management of NOAA satellites +\$1B
- NASA total \$19.4B, +\$100M for planetary PU-238 \$14.5M
- NSF +3%, \$7.3B R&RA \$5,883B

House

- Floor Vote Passed May 10
- NASA \$17.6B, -\$138M PBR SMD \$5,095B +\$150 for planetary PU-238 \$14.5M
- NSF R&RA \$5,942.7B

	1	2	3	4	5	
1	(in millions)	FY 2012 Estimate	FY 2013 PBR	FY2013 House	FY2013 Senate	
2	NASA	17770	17711.4	17573.8	19399.647	
3	Science	5073.7	4911.2	5095	5021.1	
4	Planetary Science	1501.4	1192.3	1400	1292.3	
5	Planetary Science Research	174	188.5	192	188.5	
6	Lunar Quest Program					
7	Discovery	172.6	189.6	480	189.6	
8	New Frontiers	160.7	175		175	
9	Mars Exploration	587	360.8	448.8	460.9	
10	Outer Planets	122.1	84	84	84	
11	Technology	144.9	132.9	132.9	132.9	
12						



EXECUTIVE OFFICE OF THE PRESIDENT
OFFICE OF MANAGEMENT AND BUDGET
WASHINGTON, D.C. 20503

May 7, 2012
(House Rules)

STATEMENT OF ADMINISTRATION POLICY


H.R. 5326 – Commerce, Justice, Science, and Related Agencies Appropriations Act, 2013
(Rep. Rogers, R-KY)

The Administration strongly opposes House passage of H.R. 5326, making appropriations for the Departments of Commerce and Justice, Science, and Related Agencies for the fiscal year (FY) ending September 30, 2013, and for other purposes.

NASA: "The Administration strongly opposes the level of funding provided for the commercial crew program, which is \$330 million below the FY 2013 Budget request, as well as restrictive report language that would eliminate competition in the program. This would increase the time the United States will be required to rely solely on foreign providers to transport American astronauts to and from the space station. **While the Administration appreciates the overall funding level provided to NASA, the bill provides some NASA programs with unnecessary increases at the expense of other important initiatives.**"

Next Steps For FY2013





SEQUESTERATION

DEBT CEILING

BUSH ERA TAX CUTS

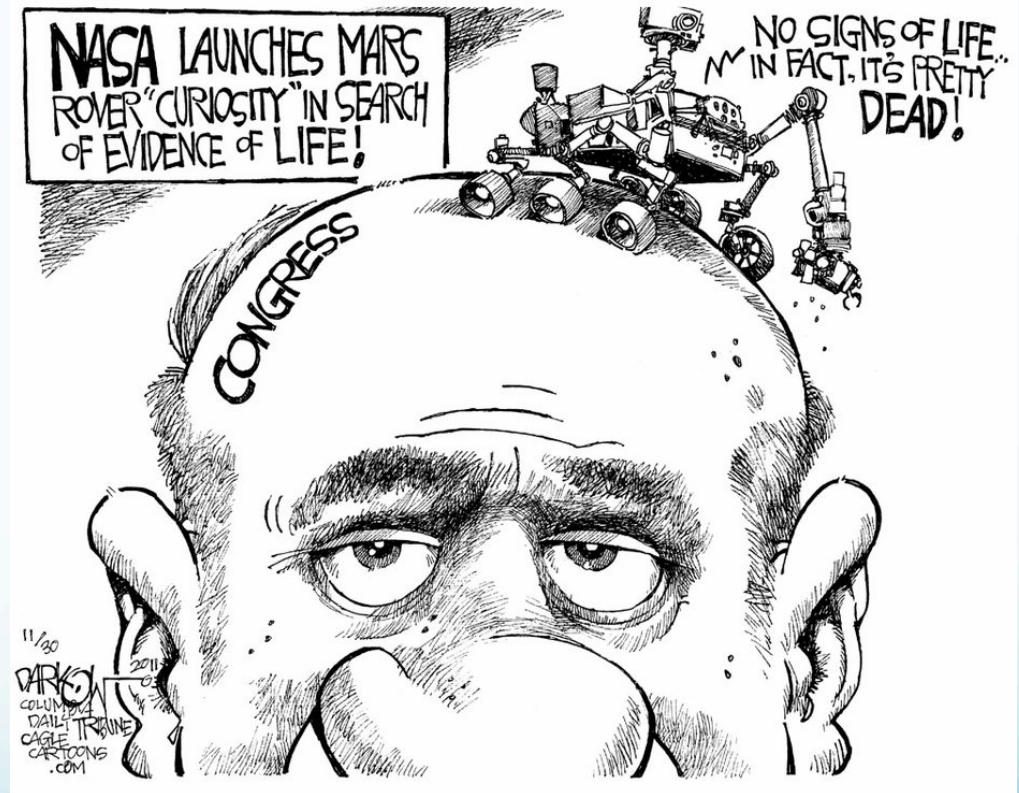
Building Relationships with Legislators

- Write, call and email on current issues often and regularly, thanking members for their work.
- Make personal visits either in Washington, D.C. or in the home district offices
- Participate in forming public opinion, letters to the editor, op-ed pieces etc.
- Invite legislators to tour local facilities, agencies, companies or universities
- Get involved

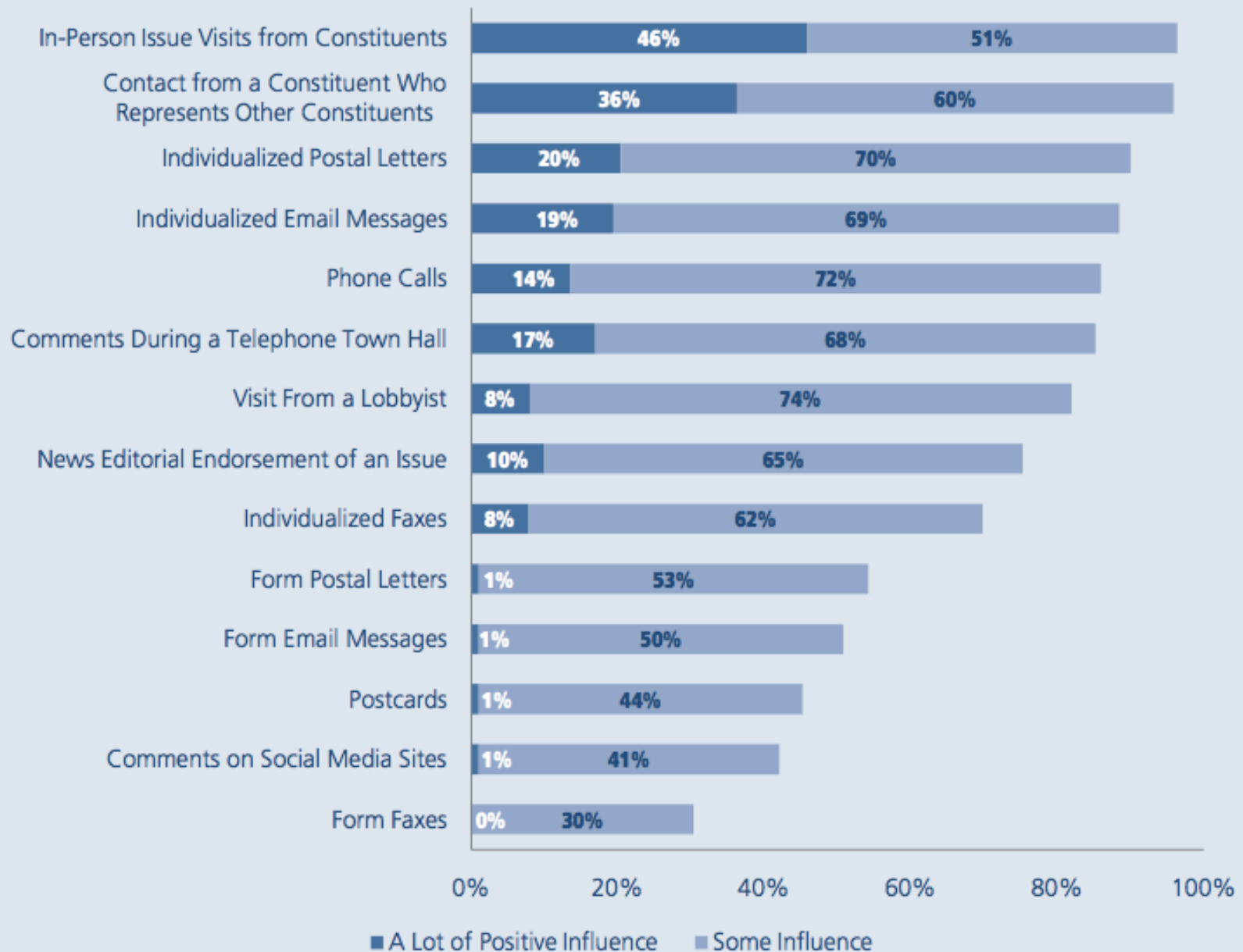


Communicating With Washington

- 2012 is an Election Year
- Make personal visits either in Washington, D.C. or in the home district offices
- **Sign up for Communicating With Washington;**
<http://aas.org/policy/cww>
- **Do Local Visits:**
http://aas.org/policy/cww_instructions
- Contact the AAS John Bahcall Public Policy Fellow, Bethany Johns, bjohns@aas.org for more ways to get involve.



If your Member/Senator has not already arrived at a firm decision on an issue, how much influence might the following advocacy strategies directed to the *Washington* office have on his/her decision?*



Decadal Surveys for Astronomical Sciences

- **The New World, New Horizons in Astronomy & Astrophysics and Visions and Voyages in Planetary Sciences decadal surveys have been released by the National Research Council and are a community consensus on priorities for federal support.**
- Review of the current state of understanding of the science and have a prioritized list of projects, programs and missions important in the next decade.
- The funding agencies look to these reports for guidance on scientific priorities.



For More Information...

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www.aaas.org/policy
- www.nasa.gov/budget
www.nsf.gov/about/budget/
- www.aip.org
www.aaas.org/spp
- www.house.gov, House Science Committee and House Appropriations Subcommittee
www.senate.gov, Commerce, Science, & Transportation; CJS Appropriations Subcommittee
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